## In the claims:

1. (previously amended) A method for frequency conversion of a non-polarized optical light beam, comprising:

splitting a non-polarized optical light beam into two orthogonally polarized beams; forming said polarized beams and rotating the polarization of one of said polarized beams; and

pumping an optical frequency converter with said polarized beams, wherein said optical frequency converter comprises a non-linear crystal placed within a common cavity, and the common cavity is pumped by said polarized beams.

- 2. (canceled) A method for frequency conversion of a non-polarized optical light beam, comprising jointly pumping one, type II phase matched frequency conversion process with two orthogonally polarized beams.
- 3. (previously amended) The method according to claim 1, further comprising placing an optical isolator in the beam path such as to prevent reflection-returned light from entering into the pump laser.
- 4. (previously amended) The method according to claim 1, wherein both beams are focused together into one spot within the frequency converter so as to generate one converted beam.
- 5. (canceled)
- 6. (previously amended) The method according to claim 1, further comprising combining the two generated polarized beams into one beam by means of a polarization beam combiner.
- 7. (previously amended) Apparatus for frequency conversion of a non-polarized optical light beam, comprising:
- a beam splitter adapted to split a non-polarized optical light beam into two, orthogonally polarized beams;

beam forming optics adapted to form said polarized beams and rotate the polarization of one of said polarized beams; and

an optical frequency converter pumped with said polarized beams, wherein said optical frequency converter comprises a non-linear crystal placed within a common cavity, and the common cavity is pumped by said polarized beams.

- 8. (original) Apparatus according to claim 7, wherein said beam splitter comprises a beam displacer polarizer.
- 9. (original) Apparatus according to claim 7, wherein said beam forming optics comprises a half-lambda retarding wave plate, placed into one beam path such as to rotate its polarization by 90°.

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10-13. (canceled)